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Naval Postgraduate School

Monterey, California

September 27, 1993

Computer and Information Services

BULLETIN

Workstation News

Sun Unix Open House

The Computer Center has introduced Sun Sparc 10-41 Unix workstations as its basic computing platform.

Students, faculty, and staff are invited to come by In-141 during two open house sessions to learn more about these Unix workstations.

Friday, October 1, 1000-1200 & 1300-1500

Computer Center staff will be on hand to demonstrate:

- login to the mainframe
- login to other Unix platforms such as the local Cray Y-MP/EL
- read help screens and manual pages
- transfer files between platforms through FTP
- upload files from an MS-DOS formatted disk with MTOOLS
- read and send e-mail from the Sun

If these times are inconvenient and you would like to learn more about the Center's Sun workstations, contact Dennis Mar, In-133, ext. 2672, mainframe userid 2001P, or mar@nps.navy.mil

Dennis Mar

Sun Openwindows Font Sizes

This and the following article are examples of the kind of information now distributed via ccmsgs. From a Computer Center Unix workstation, simply type

ccmsgs

You can select a different font as the default font size for your Sun windows. Here's how you do it:

- 1) To see a list of available fonts from a cmdtool window (Unix window), type:

xlsfonts | more

- 2) Once you have selected your font, edit the .Xdefaults file in your home directory and enter the new font at the bottom of the file. For example, I picked the font 9x15bold in this example:

*Font.name: 9x15bold

Another common font is 9x14, so your .Xdefaults entry would be:

*Font.name: 9x14

- 3) Exit from the Sun and then login again. Now ALL your windows will have your new font size. You may want to repeat this process over several times to get the font that fits your needs.

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Forwarding Mail From Unix

If your primary computer (the one you log into most often) is not your Computer Center Unix account, then you can set up mail forwarding to

your primary machine. This is how you do it:

```
% cd
% echo "user@host" > .forward
```

e.g.

```
% cd
% echo "0219p@vm1.cc.nps.navy.mil" > .forward
```

(In the preceding, the % represents the Unix prompt.) Be sure to test it by mailing a test message to your Computer Center account. You should see the mail on your primary machine. Turn off forwarding by removing the .forward file in your home directory.

Jody Schivley, jschiv@nps.navy.mil

Fall Quarter Talks

The Computer Center staff will give thirty-six talks during the Fall Quarter to acquaint users with the various facilities of the VM/CMS timesharing and MVS batch systems available on the mainframe and with the services available in the Center's and the campus microcomputer labs. In addition, Prof. P.A.W. Lewis (OR) Dept. will present two introductory talks about interactive statistical/graphical services using APL.

General-Interest Talks

Signup is not required for the following four talks.

Introduction to VM/CMS

1110 Wednesday 29 September Dennis Mar In-122

1110 Tuesday 5 October Dennis Mar In-122

This talk is given twice. It assumes no prior knowledge of the Center's computer, and covers use of the 3278 and related terminals, how to logon and logoff, use of the function keys, online help files, and various general-purpose commands. *It is strongly recommended for all new users of the Center and covers information which may not be provided in an introductory programming class.* Be sure to bring a copy of Technical Note VM-01, *User's Guide to VM/CMS at NPS*, generally provided

when a new user registers at the One-Stop-Check-in or in In-147. (Those without computer experience may wish to consider instead the Center's Hands-on Mainframe talk.)

Introduction to XEDIT

1110 Thursday 30 September Helen Davis In-122

1010 Wednesday 6 October Helen Davis In-122

This talk is presented twice. It provides elementary information about the XEDIT full screen editor. It covers methods for creating and changing programs and other files. Use of the PF keys and HELP facility in XEDIT are mentioned. The talk assumes little or no familiarity with XEDIT, but prior attendance at *Introduction to VM/CMS* is recommended. (Those without computer experience may wish to consider instead the Center's talk Hands-on-Mainframe).

To attend any of the following talks, you must sign up in the Consulting Office, In-146.

Hands-on Mainframe

0910 Thursday 14 October Helen Davis In-364E

This session is designed for those who find the thought of learning to use the mainframe computer a bit intimidating; it combines the information from two separate lectures, *Introduction to VM/CMS* and *Introduction to XEDIT*. This is a single two hour slow pace class in a terminal room where you can work and interact with CMS, FILELIST, RDRLIST, and XEDIT during the session. Class size is limited to 12 due to the number of terminals.

Microcomputer Talks

Introduction to SIMPC

1010 Friday 1 October Raul Romo In-260

This talk is presented once. It provides elementary information about the installation and use of SIMPC on your home computer to obtain full screen capability and file transfer capability between your home PC and the Center's mainframe AMDAHL System running VM/ESA/CMS and MVS/ESA. Without SIM3278 (SIMPC) you may dial into the mainframe but in single line only mode (similar to

an old teletype machine). The talk discusses hook up procedures, common problems encountered and their solutions. V6.1 of SIMPC will be distributed on 3½ inch disks. This talk requires no signup.

APL2/AGSS on Microcomputers & Workstations

1510 Wednesday 6 October Prof. P.A.W. Lewis Ro-260

APL2 is a modern APL language; AGSS is a scientific and statistical graphics package written in APL2. The combination of this interactive, array oriented language and the extensive suite of functions and graphics available in AGSS (A Graphical Statistical System) makes for one of the most effective computing environments currently available. This talk will discuss the use of the package for topics like regression, time series analysis and reliability data analysis in the microcomputer and workstation environments.

WordPerfect Thesis

0910 Thursday 7 October Larry Frazier In-119

0910 Tuesday 26 October Larry Frazier In-119

1010 Friday 19 November Larry Frazier In-119

This talk will be given three times; it shows how to produce a thesis in NPS-approved format using NPS Styles. The Style Sheets were developed at NPS to simplify the specific formatting requirements for theses. On-line and printed documentation in the form of a sample thesis will be provided; this and the style sheet can be copied for use with WordPerfect 5.0 and 5.1 off site. *Those attending this talk must be familiar with WordPerfect, and have a prior knowledge of fundamental MS-DOS commands* either through attendance at a Computer Center talk or by training or previous practical experience elsewhere. *The talk is open to anyone preparing a thesis at NPS including spouses.*

Unix/Workstation Talks

Unix Fundamentals

Part 1

0910 Wednesday 29 September Matt Koebbe In-122

0910 Thursday 30 September Matt Koebbe In-122

1310 Monday 4 October Matt Koebbe In-122

1010 Thursday	7 October	Matt Koebbe	In-119
1010 Friday	15 October	Matt Koebbe	In-119
1010 Tuesday	19 October	Matt Koebbe	Ro-260

Part 2

0910 Friday 1 October Matt Koebbe In-122

0910 Tuesday 5 October Matt Koebbe In-122

1310 Wednesday 6 October Matt Koebbe In-122

1010 Tuesday 12 October Matt Koebbe In-119

1010 Monday 18 October Matt Koebbe In-119

1110 Thursday 21 October Matt Koebbe Ro-260

There are two parts to this talk, each presented six times. Signup is not required for this talk, but seating is limited to approximately 30 in In-119.

Some people feel that the UNIX operating system is comprised of an overwhelming number of individual commands that must be memorized. This talk will introduce users to the UNIX operating system's innate hierarchical structure—both at the command and file system levels. The speaker will emphasize the "Unix perspective" to file system structure, disk usage, and communications.

The first hour will focus on the way in which information is stored and shared within a single and between multiple workstations. The second hour focuses on command structure and the user interface. Security issues will be addressed and there will be time to answer questions.

These talks are open to staff, faculty, and students. There are no prerequisites. Users may attend as many sessions as they wish.

Introduction to Unix

0910 Monday 4 October Larry Frazier Sp-341

1010 Tuesday 12 October Larry Frazier Sp-341

Most Unix systems at NPS provide graphical user interfaces that make it easier to get your work done. However, it can be helpful to have a general understanding of Unix itself, and there are times when you may need to create, copy, and delete files, create directories, etc., without the benefit of the graphical front end. This talk introduces such elementary topics, and might be all the Unix needed to get started on a Unix workstation. The talk described above is more theory; this one is more nuts and bolts. There are twelve workstations avail-

able; the first twelve people signing up will have priority at the hands-on practice. Others will be able to watch and learn. Contact Larry Frazier, In-113, x2671, to have this talk given for other groups. Sign up in In-146 is required.

Introduction to the Unix Editor vi

0910 Tuesday 5 October Chris Essert Sp-341
1010 Wednesday 13 October Chris Essert Sp-341

Unix systems at NPS usually provide text editors that make it easier to get programs or data entered into the computer. The basic text editor that all Unix systems have is called 'vi'—a full-screen interactive editor. This talk introduces the most common 'vi' commands that allow one to create new text, revise existing text, or append text to an existing file. There are twelve workstations available; the first twelve people signing up will have priority at the hands-on practice. Others will be able to watch and learn. Contact Chris Essert, In-133, x2672, to have this talk given for other groups. Sign up in In-146 is required.

Unix: Lesson 2

0910 Wednesday 6 October Larry Frazier Sp-341
1010 Thursday 14 October Larry Frazier Sp-341

This is lesson 2, building on the talk described just above the vi talk above; it covers Unix mail and other intermediate-level Unix commands. There are twelve workstations available; the first twelve people signing up will have priority at the hands-on practice. Others will be able to watch and learn. Contact Larry Frazier, In-113, x2671, to have this talk given for other groups. Sign up in In-146 is required.

Cray YMP EL User Workshop

1010 Wednesday 17 November Mike McCann SP-341
1010 Thursday 18 November Matt Koebe Sp-341

This is a two hour introduction to the hardware and software available on the Cray YMP EL. Users will have an opportunity to actually run programs on the Cray via interactive logins from the Indigo workstations in the Lab. Topics to be covered in-

clude, Setting up a script to access data, compile & run a program, and dispose of the resulting data. Use of the Network Queuing System (NQS) to submit batch jobs and to monitor job progress, the optimizing of code, especially the vectorization of inner loops. Using performance analysis tools to identify inefficient code and using NCAR graphics and NCARview. Attendees should be familiar with Unix, vi, Fortran, and X-windows. *Space is limited to about 20 people; reserve a spot* by signing up in In-146. If you do not already have an account on the Cray then contact Mike McCann at ext. 2752 or at mccann@merak.cc.nps.navy.mil

Introduction to the Vis Lab

1410 Monday 15 November Mike McCann In-148
1410 Friday 19 November Matt Koebe In-148

This is a two hour introduction to the hardware and software available in the Vis Lab (In-148). The first hour will be an overview of the image processing and visualization packages in the lab, particularly Vis5d (which allows interactive display of multi-dimensional gridded data), including how to get your data into Vis5d format. The presentation will assume a working knowledge of Unix (an Intro Unix talk is announced above). The second hour will be devoted to hands-on use of the tools, including the video recording hardware. *Space is limited; reserve a spot* by sending e-mail to mccann@merak.cc.nps.navy.mil indicating which day you wish to attend.

Specialized Mainframe Talks

Introduction to E-Mail

0910 Tuesday 19 October Helen Davis Ro-260

This talk provides basic information about electronic mail services available to mainframe users. General descriptions of BITNET and Internet (the two wide-area networks available to mainframe users), the software tools used on each network, and the format of electronic addresses are presented. A demonstration of sending and receiving e-mail is integral to the presentation.

Introduction to Minitab

1110 Tuesday 12 October Dennis Mar In-119

Minitab is an interactive statistical computing system available on VM/CMS. It is designed for moderate-size data sets which can be stored on a CMS A-disk. Minitab is quick and especially useful for exploring data, plotting, and regression analysis. *Attendees should be familiar with the VM/CMS timesharing system.*

APL2/AGSS on the Mainframe

1510 Monday 4 October Prof. P.A.W. LewisRo-260

APL2 is a modern APL language and AGSS is a scientific and statistical graphics package written in APL2. The combination of this interactive, array oriented language and the extensive suite of functions and graphics available in AGSS (A Graphical Statistical System) makes for one of the most effective computing environments which is currently available. This talk will discuss the use of the package for topics like regression, time series analysis and reliability data analysis in the mainframe computing environment. On the mainframe, very large workspaces are available -- up to 999 megabytes!

Introduction to SAS

1110 Wednesday 6 October Dennis Mar In-119

SAS, the Statistical Analysis System, is a flexible program for handling all phases of data analysis: retrieval, data management, statistical analysis, and report writing. It has excellent features for merging and subsetting data sets. The speaker will describe the required data format and SAS control statements for a simple problem. Both the batch and timesharing modes of execution will be demonstrated.

Introduction to REXX

1010 Wednesday 13 October Dennis Mar Ro-260

REXX is a CMS command programming language--the successor to EXEC2, and especially useful for creating personal execs and XEDIT macros. This introductory talk covers REXX input/output, variable manipulation, structured pro-

gramming features, and embedding CP and CMS commands.

Neil Harvey

Mainframe News

DOT V4.00 Installed

The Design Optimization Tools (DOT) V 4.00 from VMA Engineering is available for testing and use on the mainframe. DOT may be used to solve a wide variety of nonlinear constrained or unconstrained optimization problems. DOT may be used with the Design Optimization Control Program (DOC V 1.20 also available on the mainframe), which serves as a front end to DOT, and allows approximated responses as well as parametric studies. Other options are multiobjective optimization, synthetic variables and responses, and discrete optimization.

A CMS Exec file named DOTV4 was created to link users to the DOC V 1.20 and DOT V4.00 minidisk. A README Memo93 file describing the products is available after linking to the DOT and DOC minidisk. From CMS, enter DOTV4.

Prof. Josh Gordis, of Mechanical Engineering (ext 2866) will be the Faculty POC. Any suspected installation problems should be reported to Neil Harvey at ext 2088 or mainframe userid 1770P.

Neil Harvey

Security Notes

Automated Information security threats are increasing. We must continually advise our users of this concern in order that adequate practices and procedures are followed at NPS and elsewhere. The following list of procedures was obtained from Caryl Lindsay of the Administrative Science Department and is worth noting.

1. Keep passwords secret.
2. Shred all sensitive data.

3. Erase old files.
4. Disguise sensitive files.
5. Lock up your PC.
6. Backup and store separately.
7. Destroy bad copies/printouts.
8. Clean off your desk and lock it.
9. Lock file cabinets.
10. Logoff.

Neil Harvey

Computer Center Mainframes

The Center operates (1) An Amdahl 5995-700A (384 MB processor storage, 1 GB expanded storage) loosely coupled with an IBM 4381 Model Q13 (24 MB). Interactive computing is provided under VM/XA CMS, batch processing under MVS/ESA with JES3 networking. (2) A Cray Y-MP/EL (8 cpus, 2 GB memory, running Unicos).

Hours of Operation

VM & MVS 24 hrs/day, 7 days/wk
656-2713:statusrecording

NOTIS M.-Th. 0700-2300
(Library) Fr., Sa. 0700-1800
Sunday 0700-2200

Consulting Mon-Fri 0900-1130
(In-146 ext 3429) 1315-1545

Dial-up 656-2709 up to 9600 bps
TAC Access 647-8422

Terminal Clusters (Open)

In-141 17 Sun SPARC 10/41
5 3472G Graphics/APL
2 3192-2 Graphics/APL

In-364E 14 3192 Graphics/APL

Ro-222 14 3278-2 (3 APL)

Sp-311 11 3278-2 (4 APL), 2 Tek 618

Bu-100 4 3278-2 (2 APL), 1 Tek 618

Ha-126 3 3278-2 (1 APL), 1 Tek 618

Ha-201C 4 3278-2 (1 APL), 1 Tek 618

Bldg223 11 3178-2 (1 APL)

Knox Library (Basement) 3 3278-2

Printers (Mainframe)

In-140 IBM 3800-3 Laser (215 ppm)
IBM 3262 Impact (650 lpm)

In-141 Tek 4693D Color Prntr/Plotter
Shinko CHC-743MV Clr Prntr

In-364 IBM 3268 Impact (APL)

Sp-311 IBM 3203 Impact (1000 lpm)

Ro-222, Ha-201B, Bu-100, Bldg 223
IBM 3262 Impact (650 lpm)

Computer Cen. VisLab, In-148

3 Silicon Graphics workstations
1 Silicon Graphics 380 VGX
1 Mac Quadra 700
1 HP 730 workstation
1 DECstation 5000
1 Sun SPARC 10/41

Learning Resource Centers

Hours of Operation

Open: M-F 830-1630
(Other access by arrangement)

GL-128 20 Mac Quadra 700 (Sys 7)
6 PC 486/DX 50

GL-203 33 PC 486/DX 33

GL-318 19 HP 730
1 PC 486/DX 33

In-151 11 PC 386 (25/33)
1 Discover Scanner (PC)
2 HP LaserJet IIIsi
2 Xerox 6085 workstation
1 Xerox image scanner
1 Xerox laser printer

In-371 6 PC 486/DX 33
4 PC 386/25

Ro-262 15 PC 386/20
2 Z-248 (286)

Points of Contact

	Room	Ext.
Dean, Computer & Information Services (Acting)		
Toke Jayachandran	He-D139	2392

ADP Security		
Jeff Franklin	He-D139	2469

Knox Library		
Maxine Reneker	Kn-105	2341

Computer Science micro & wkstns		
Al Wong	Sp-525A	2009

Admin. Science micro labs		
Norm Schneidewind	In-311	2719

ECE micros & workstations		
Bob Limes	Sp-301	3216

Computer Users Council (CUC)		
Mike McCann, Comp. Center		2752
Dennis Mar, Secretary		2341

MIS Points of Contact

Applications Development & Support:		
Comptroller & Supply:		
Judy Harr		3498
Comptroller: Rhoda Lynch		3374
Dean of Instruction, Staff,		
Curricular Offices:		
Lloyd Nolan		3128

Network Services

Codes 00x, 03x, 07		
Lonna Sherwin		2794
Codes 05, 21, 22, 53		
Lyle Munn		2794

Codes 03, 04, 06, 08

René Lightcap	2195
Codes 42, 43 Joe Lopiccolo	2994

Computer Center Points of Contact

	Room	Ext.
Director		
Prof. Douglas Williams	In-129	2572
Administrative Assistant		
Mandy Drury	In-130	2574
Manager, Systems Support		
David F. Norman	In-118	2641
Manager, User Services (Acting)		
Dennis Mar	In-133	2672
Manager, Operations		
Roy Romo	In-132	2004
Manager, Visualization Lab		
Mike McCann	In-102A	2752
Manager, LRCs & Center Micros		
Kathryn Strutynski	GL-375	2696
Editor, Bulletin		
Larry Frazier	In-113	2671
User Registration and Accounting		
Irma Bozardt	In-147	2731
Ruth Roy, Manager	In-109	2796
Programming Cnsultnt.	In-146	3429
Shift Supervisor, Opns	In-140	2721
System Status (recorded msg.)		2713

NPS Computer Club

Club President:
Helen Thompson 375-2065

MS-DOS:
Chairman: Robert Jacobs 372-2981
Librarian: Bob Smith 899-9623

Mac:
Chairman: Andy Melton 373-0695
Librarian: Steve Walker

OS/2:
Chairman: Chuck Bane 655-5668
Librarian: Jonathan Hart 656-8280

Amiga:
Chairman: Josh Rovero 656-2084
Librarian: Dan Zulaica 656-2929

BBS: Closet Gouge I & II: 300/1200/2400 bps; 8-N-1; 655-8785 & 655-8787

Distribution: List 3, plus: 250-B3, 6-B4, 20-B13, 2-B15, B18, 12-F2, 10-F3, 9-F4, 1-F7, 1-F14, 5-FNOC Computer.